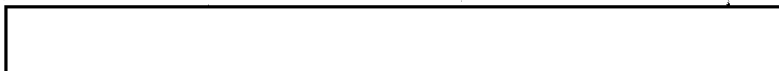


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Quarterly Progress Report
Number 4

May 15, 1965

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Project Number: 723
Title: PI Performance
Contract Dates: 6/19/64 - 6/19/66
Estimated Costs:
Funds Expended to 4/30/65:
Costs Remaining:
Technical Representative: RLS
Project Director: DNB
Project Staff: DNB, AH, RRM, DAD

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This progress report covers the period from March 8, 1965
to May 15, 1965.

Expenditures

The average expenditure rate thus far has been about
per month; we originally estimated a rate of
month. During the three-month period from January 31, 1965 to
April 30, 1965, the average monthly expenditure rate was

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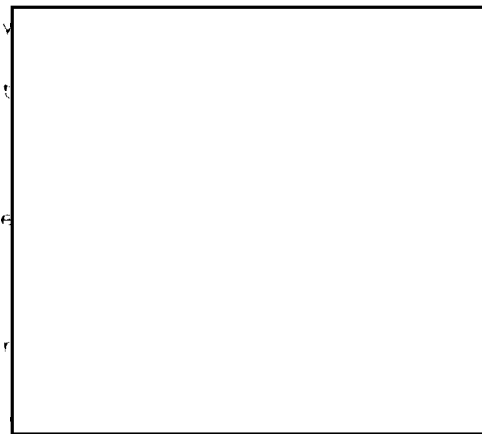
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Progress

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During the reporting period, a study of
the accuracy of the data points representing
experimental conditions employed in the study
of obliquity angles. The latter study had been
completed during the previous reporting period. As was expected
from the determined data points, those representing
obliquity angles of 10 and 20 degrees of obliquity
had not been properly processed in the laboratory. Consequently,
half of each of the two stereo pairs representing these conditions



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revised edition of the original report was submitted to the customer. In addition, the project director briefed interested personnel in Washington on the results of the study. The major result was that there was no effect on the judged worth of stereo photographs due to the differences in convergence angle of 10, 20, and 30 degrees.

A small psychophysical scaling study was also conducted during the past quarter. Ten PIs participated in the study. A pair-comparison technique was employed in an effort to determine the relative discriminability of convergence angle as a photographic variable. The data are currently being analyzed, and a technical memorandum will be prepared when the analysis is completed. One fact is already evident from the data: there are large differences among experienced individuals in the ability to discriminate stereo relief.

A plan for our longer range effort was submitted to the customer during the past quarter and arrangements were made to collect the photography required to fulfill that plan. In addition, initial arrangements were made with TID to conduct an empirical study of the accuracy of height measurement as a function of stereo convergence angle and ground resolution.